Figure 1

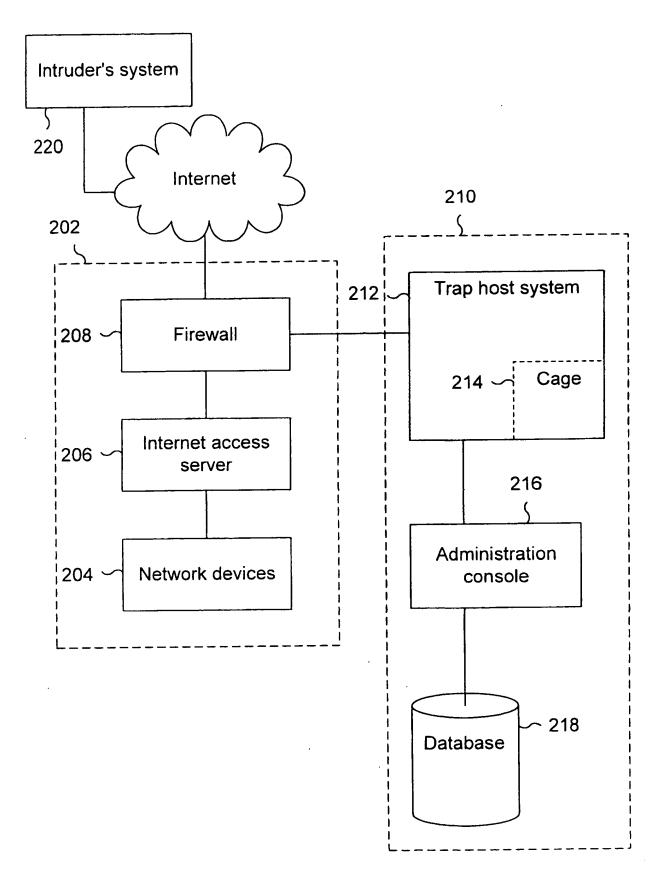


Figure 2

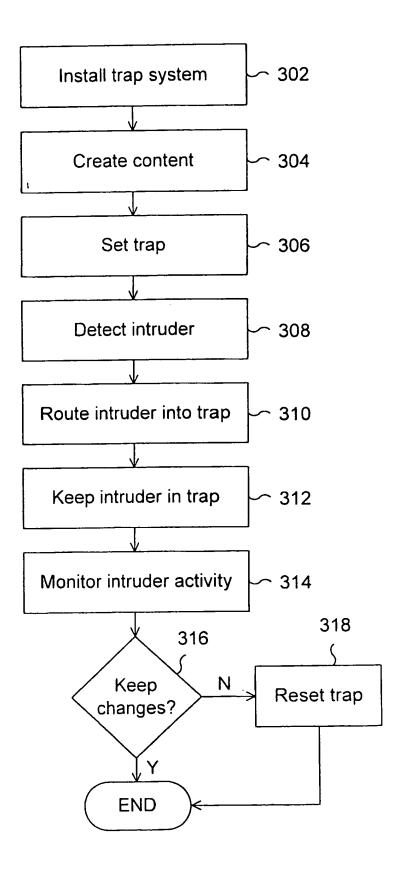


Figure 3

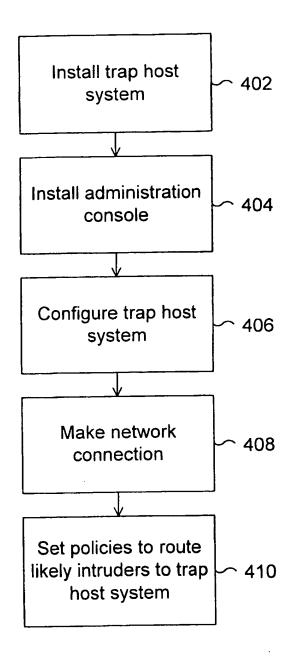


Figure 4

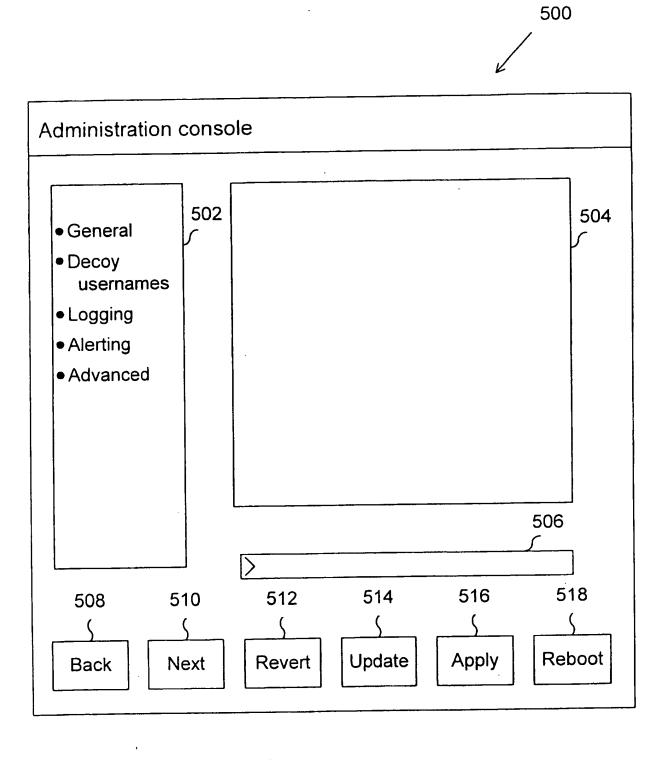


Figure 5

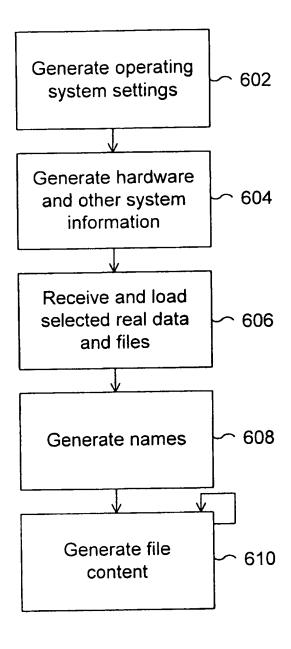


Figure 6

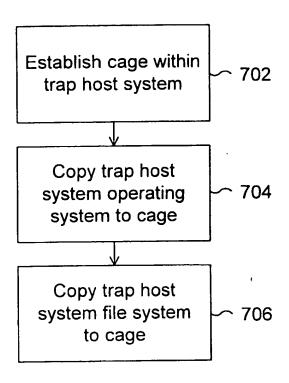


Figure 7

ě	Telnet - 10.0.0.101
<u>C</u> d	onnect Edit Terminal Help
	•
s	un0S 5.7
	NOTICE TO USERS
B	se of this system constitutes consent to security monitoring and testing. y using this system, the user consents to any interception, monitoring, ecording, copying, auditing, inspection, or disclosure at the descretion f authorized site or corporate personnel.
di sy	Inauthorized or improper use of this system may result in administrative isciplinary action and civil and criminal penalties. By continuing to use this ystem you indicate your awareness of and consent to these terms and onditions of use. LOG OFF IMMEDIATELY if you do not agree to the onditions stated in the warning.
lo	ogin:

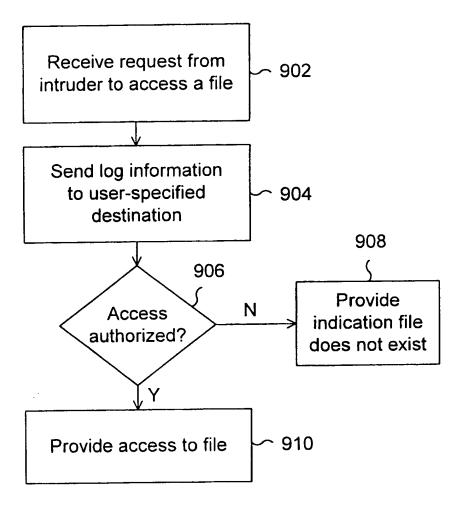


Figure 9

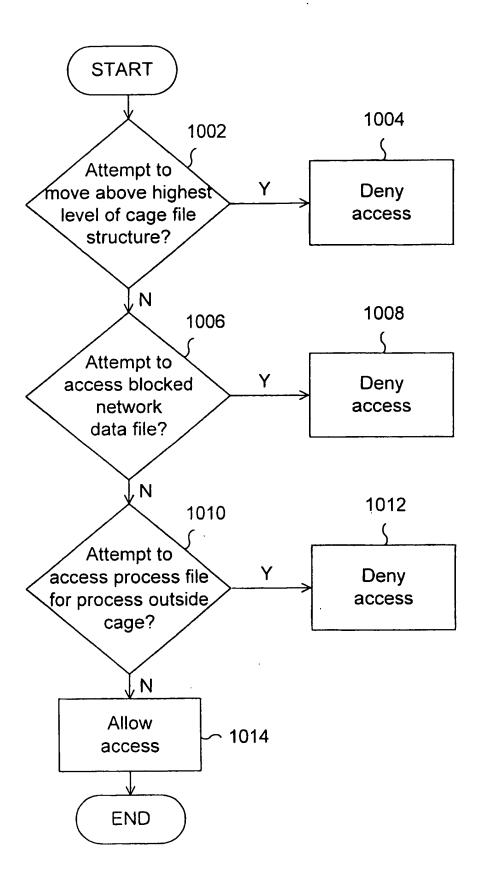


Figure 10

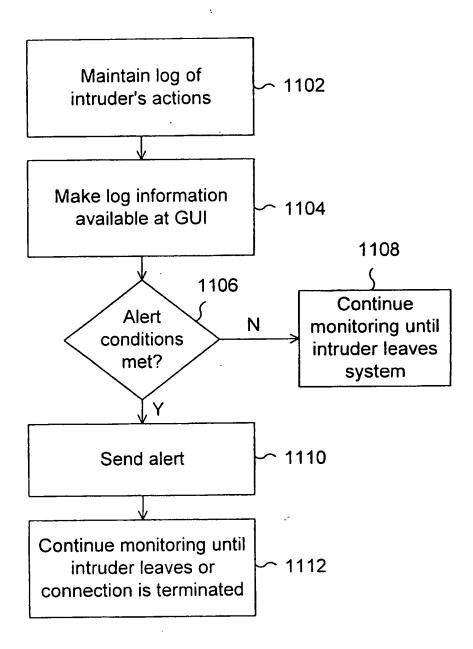


Figure11A

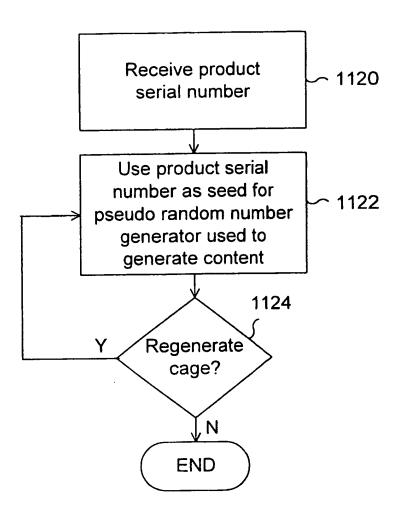


Figure 11B

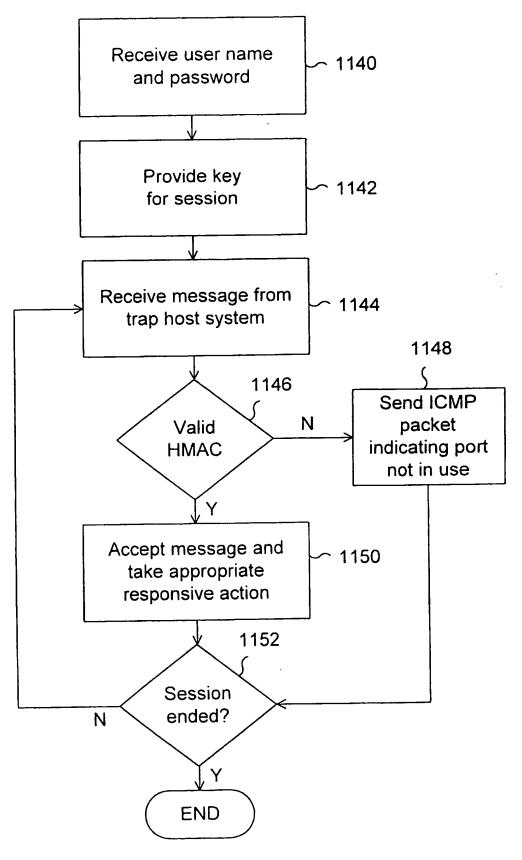


Figure11C

Figure 12

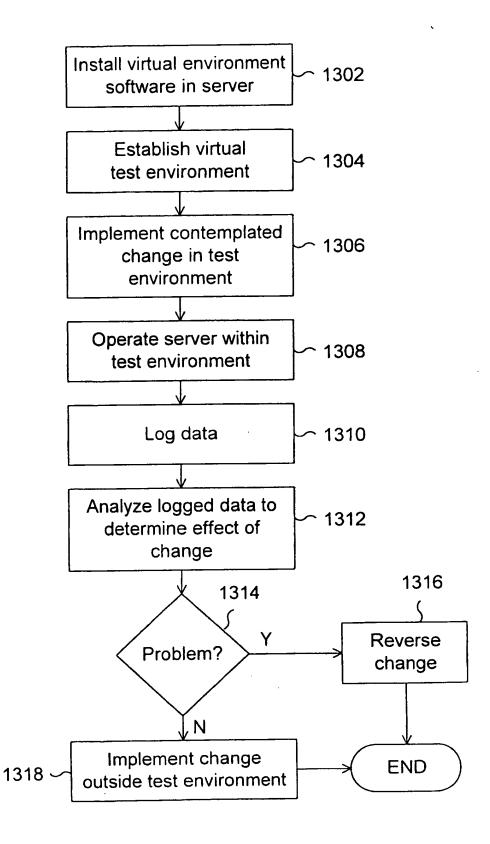


Figure 13

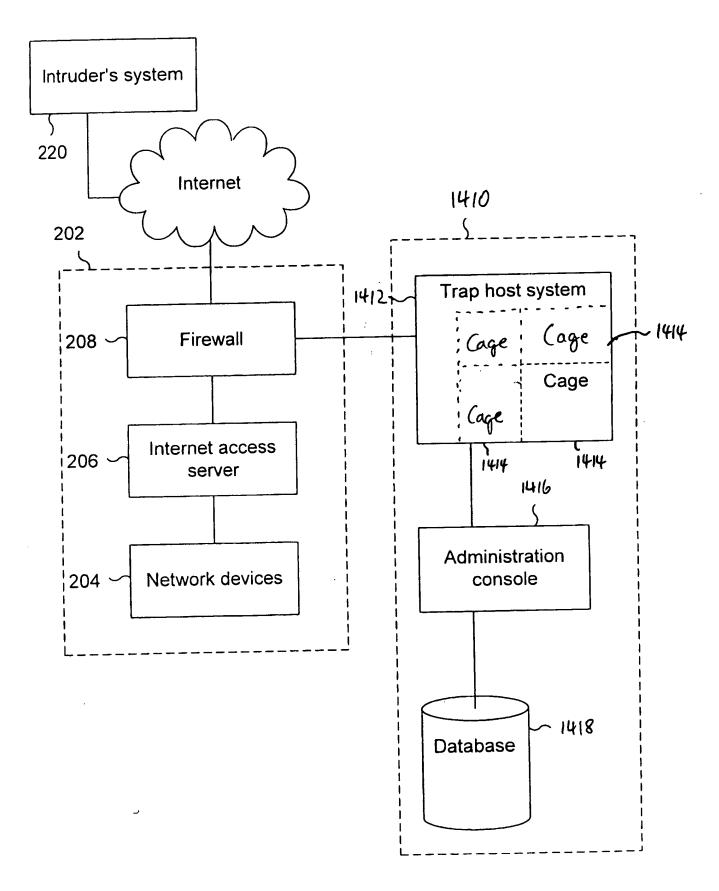


Figure 14

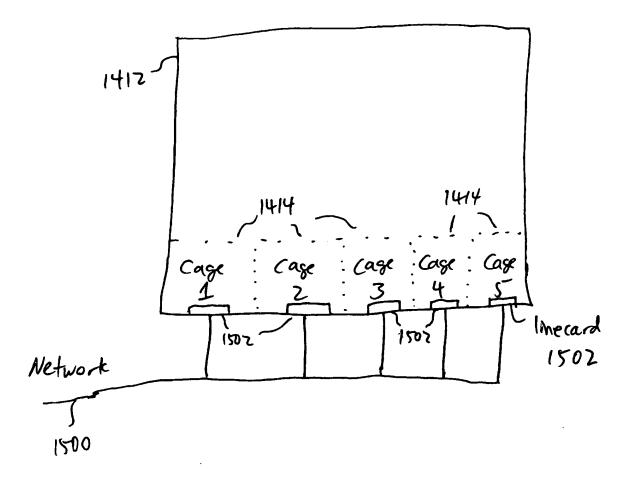
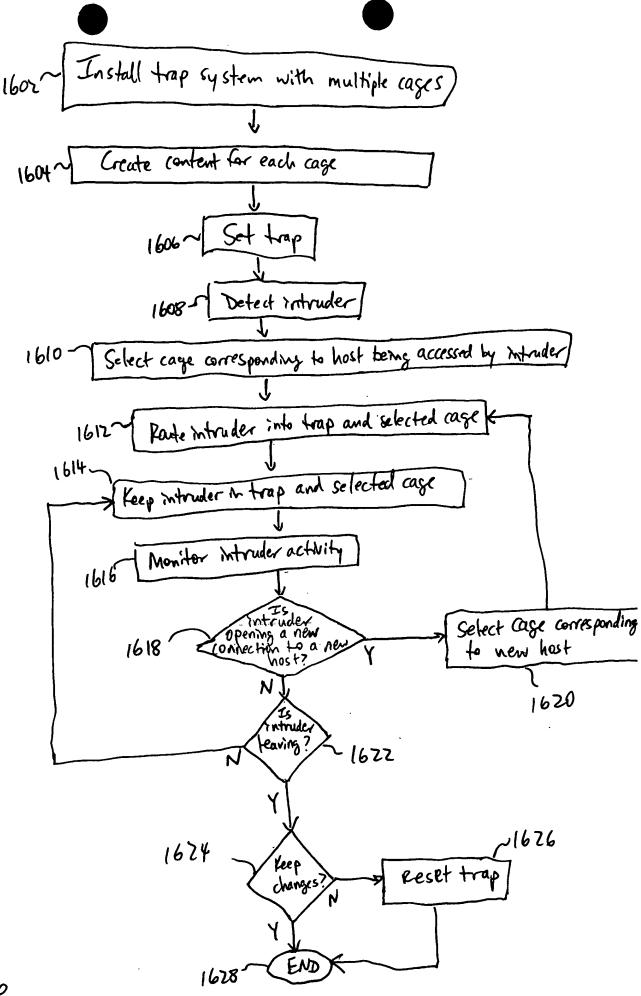


Figure 15



FIERE 16

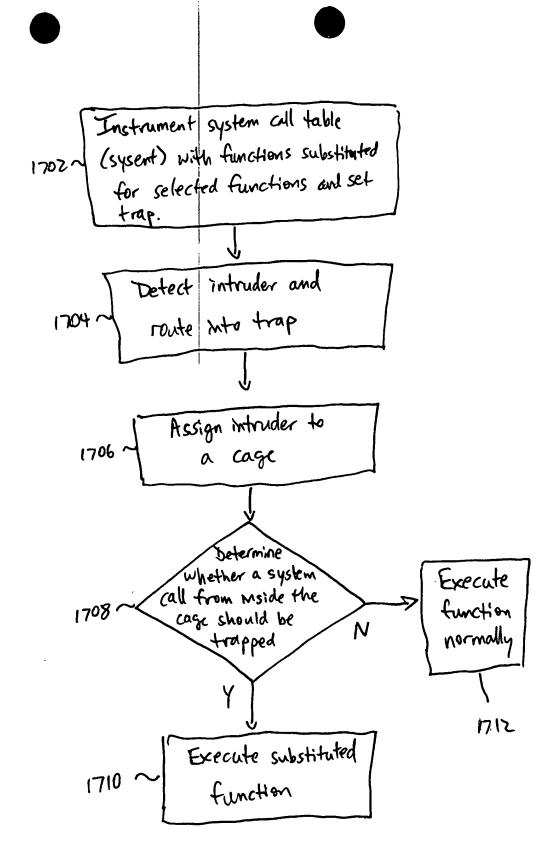


Figure 17

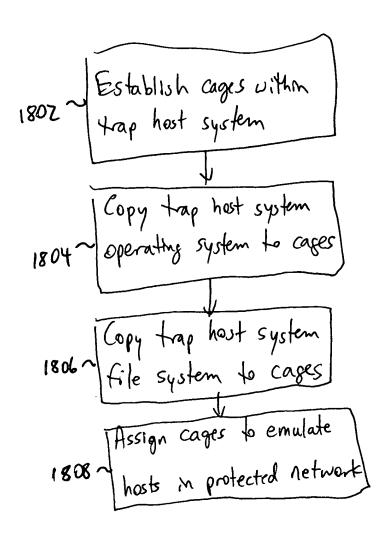


Figure 18

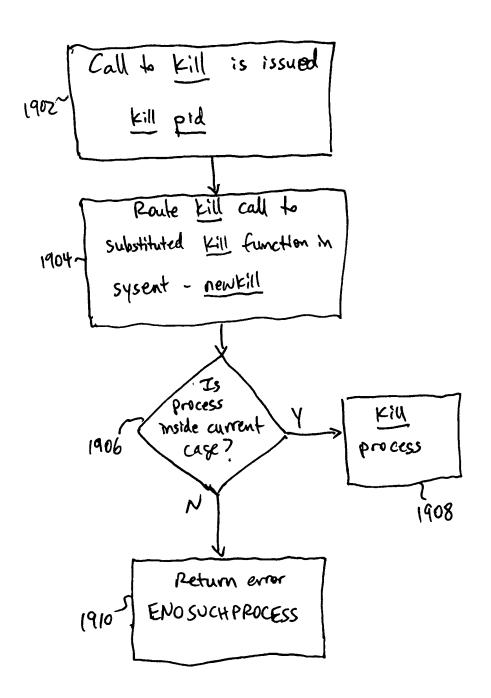


Figure 19

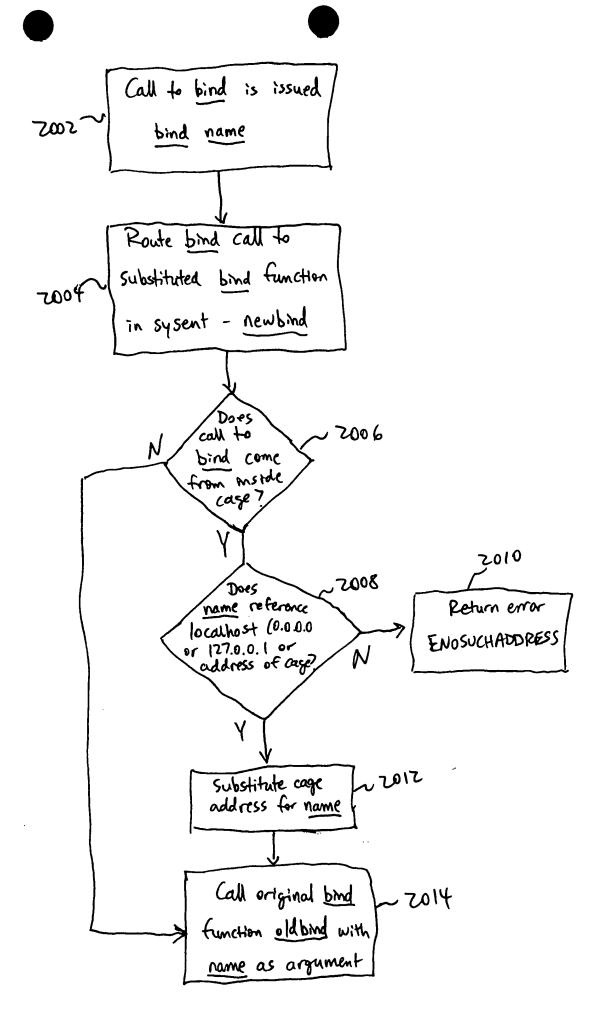


Figure 20

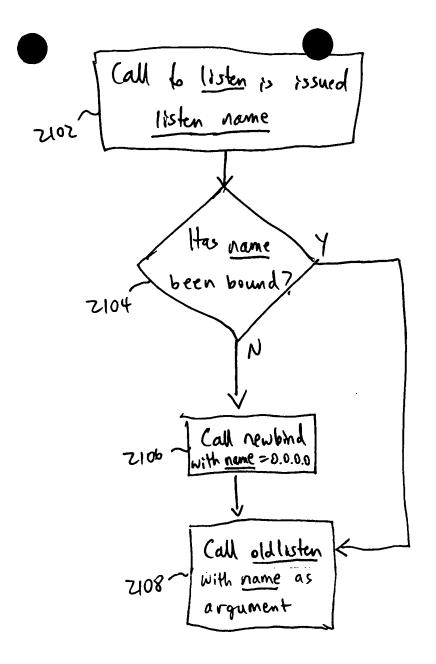


Figure 21

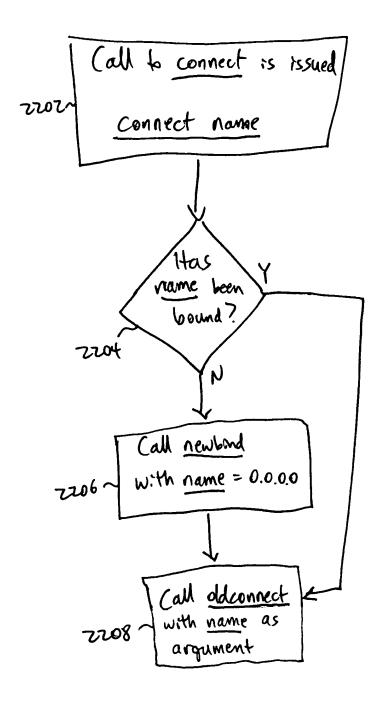


Figure 22

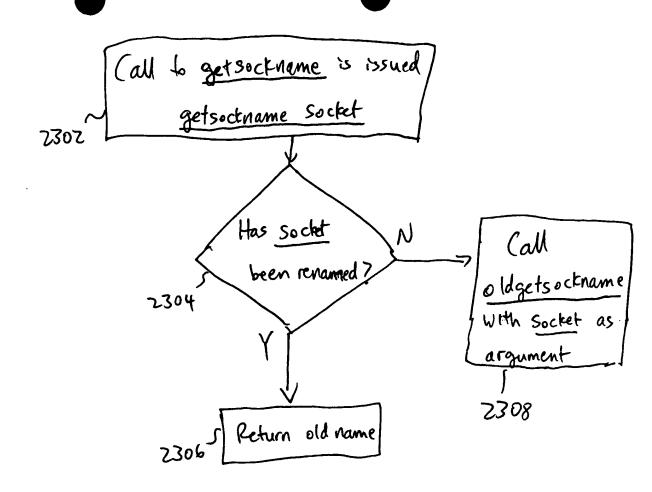
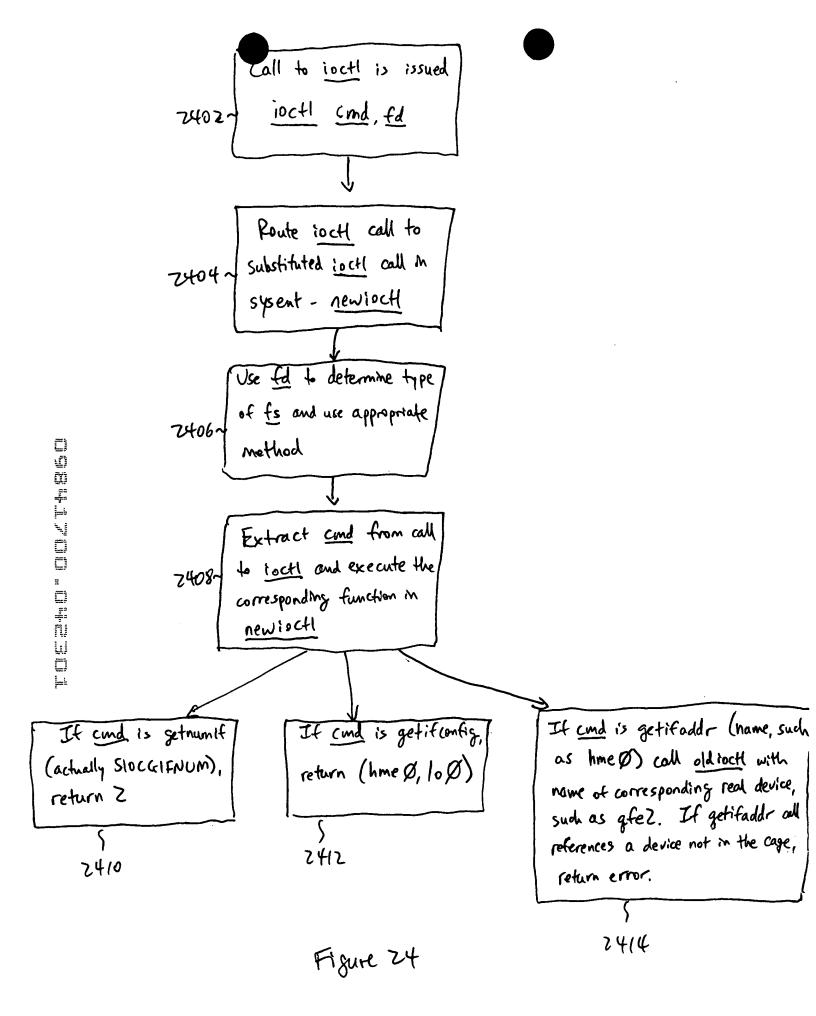


Figure 23



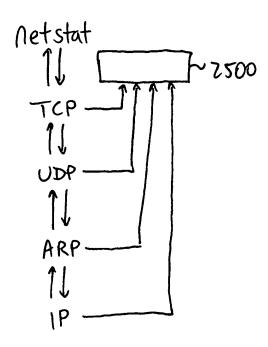


Figure 25

```
<doc>
<regexp-query>
     <name>Possible SGID Exploit</name>
      cproperties>
            <priority>10</priority>
      </properties>
      <pattern>
            <line>.*exec args=.*pid=\((\d+)\); ppid=\(\d+\); uid=\(\d+\); euid=
(d+); gid=([1-9]d*); egid=(0).*</line>
            </next>
            <next>
            <line>.*args=\([\-\w\\\/ ]+\); pid=\(\\d+\); ppid=\(\%1%\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  <line>.*args=\(([\-\w\\\/ ]+)\).*ppid=\(%1%\).*</line>
                  <action>
                        <highlight/>
                        <delete/>
                        <varop var="agg">%1%</varop>
                  </action>
            </actionpair>
      </procmatch>
      <annotation>
            <text>Possible SGID Exploit: %agg%</text>
      </annotation>
</regexp-query>
</doc>
```

Figure 26

```
<doc>
      <regexp-query>
     <name>Possible SUID Exploit</name>
      cproperties>
            <priority>10< /priority>
      </properties>
      <pattern>
            <line>.*exec args=.*pid=\((\\d+\)); ppid=\(\\d+\); uid=\([1-9]\\d*\);
euid=\(0\).*</line>
            </next>
            <next>
            <line>.*args=\(.+\); pid=\(\d+\); ppid=\(%1%\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  <line>.*args=\(.+)\); pid=\(\d+\); ppid=\(%1%\).*</line>
                  <action>
                         <highlight/>
                         <delete/>
                         <varop var="agg">%1%</varop>
                  </action>
      </procmatch>
      <annotation>
            <text>Possible SUID Exploit: %agg%</text>
      </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
     <name>All Processes</name>
      properties>
           <priority>10</priority>
      </properties>
      <pattern>
            <line>.*proclog.*args=\(([\-\.\w\\\/ ]+)\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  <line>.*args=\(([\-\.\w\\\/ ]+)\).*</line>
                  <action>
                        <highlight/>
                        <delete/>
                        <varop var="agg">%1%</varop>
                  </action>
            </actionpair>
      </procmatch>
      <annotation>
            <text>Process started: %agg%</text>
      </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
      <name>Find Processes...</name>
      cproperties>
             <priority>10</priority>
      </properties>
      <args>
             <args>.+</args>
             < pid > d + < / pid >
             <ppid>\d+</ppid>
             \langle uid \rangle \langle d+\langle /uid \rangle
             <euid>\d+</euid>
             \neq d+</gid>
             <egid>\d+</egid>
       </args>
       <pattern>
             <line>.*args=\(%args%\); pid=\(%pid%\); ppid=\(%ppid%\);
uid=\(%uid%\); euid=\(%euid%\); gid=\(%gid%\); egid=\(%egid%\).*</line>
             </next>
       </pattern>
       cmatch>
             <actionpair>
                    -\ine>.*args=\((.+)\); pid.*</line>
                    <action>
                           <highlight/>
                           <delete/>
                           <varop var="agg">%1%</varop>
                    </action>
             </actionpair>
       </procmatch>
       <annotation>
             <text>Process started: %agg%</text>
       </annotation>
 </regexp-query>
 </doc>
```

```
<doc>
<regexp-query>
     <name>All Shell-spawned Processes
     cproperties>
          <priority>10</priority>
     </properties>
     <pattern>
          <line>.*exec args=\(-sh\); pid=\((\d+)\).*</line>
          </next>
          <next>
          <\line>.*args=\(([\-\w\\\/]+)\).*ppid=\(\%l\%\).*</line>
     </pattern>
     cmatch>
           <actionpair>
                <action>
                     <highlight/>
                     <varop var="agg">%l%</varop>
                </action>
           </actionpair>
     </procmatch>
     <annotation>
           <text>Executed from a shell: %agg%</text>
     </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
     <name>Incoming Connections</name>
      operties>
            <priority>10</priority>
      </properties>
      <pattern>
            <line>.*incoming connection from=\(.+\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  ine>.*incoming connection from=\((.+):(.+)\)
to=\((.+):(.+)\).*</line>
                  <action>
                        <highlight/>
                        <delete/>
                        <varop var= "fromip">%1%</varop>
                        <varop var= "fromport">%2%</varop>
                        <varop var= "toip">%3%</varop>
                        <varop var= "toport">%4%</varop>
                  </action>
            </actionpair>
      </procmatch>
      <annotation>
            <text>Incoming Connection From IP: %fromip% (on port: %fromport%) To
IP: %toip% (on port: %toport%)</text>
      </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
     <name>Keystrokes Entered</name>
      cproperties>
            <priority>10</priority>
      </properties>
      <pattern>
            <next>
            <line>.*read stream data, id=\((\\d+)\) data=\(.+\).*</line>
            </next>
            <next fromprev="1">
            <line>.*read stream data, id=\(%1%\) data=\(.*\\0[ad4].*\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  <line>.*read stream data, id=\(%1%\) data=\((.+)\).*</line>
                  <action>
                        <highlight/>
                        <delete/>
                         <varop var="agg">%1%</varop>
                  </action>
            </actionpair>
      </procmatch>
      <annotation>
            <text>Keystrokes Entered: %agg%</text>
      </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
     <name>Screen Output</name>
      cproperties>
            <priority>10</priority>
      </properties>
      <pattern>
            <line>.*write stream data, id=\((\\d+)\) data=\(.+\).*</line>
            </next>
            <next fromprev="1">
            *write stream data, id=\(%1%\)
data=\(.*\\0[ad46].*\).*</line>
            </next>
      </pattern>
      cmatch>
            <actionpair>
                  <line>.*write stream data, id=\(%1%\) data=\((.+)\).*</line>
                  <action>
                        <highlight/>
                        <delete/>
                        <varop var="agg">%1%</varop>
                  </action>
            </actionpair>
      </procmatch>
      <annotation>
            <text>Output to screen: %agg%</text>
      </annotation>
</regexp-query>
</doc>
```

```
<doc>
<regexp-query>
      <name>Find Monitored</name>
      operties>
            <priority>10</priority>
      </properties>
      <args>
            <file_name>.+</file_name>
            < pid > \sqrt{d} + < / pid >
      </args>
      <pattern>
            <line>.*monitored file opened name=\(%file_name%\)
pid=\(%pid%\).*</line>
            </next>
      </pattern>
      cmatch>
             <actionpair>
                   <line>.*monitored file opened name=\((.+)\)
pid=\((.+)\).*</line>
                   <action>
                         <highlight/>
                         <delete/>
                         <varop var="filename">%1%</varop>
                         <varop var="pidvar">%2%</varop>
                   </action>
             </actionpair>
       </procmatch>
       <annotation>
             <text>File Opened: %filename% (from pid: %pidvar%)</text>
       </annotation>
 </regexp-query>
 </doc>
```